

CLAIMS

1. A connector which is connectable to a wiring board being composed of a non-conductive base member and a conductive wire provided on a surface of the base member, the connector comprising:

a conductive pressing member provided on and protruding from said wire; and

a holding member provided on and protruding from a portion in the surface of said base member except where said pressing member is located, the holding member having an affixing surface attachable to said wiring board.

2. The connector according to Claim 1, wherein said pressing member is elastically deformable, and

said holding member is lower than said pressing member in height and made to be elastically deformable.

3. The connector according to Claim 1 or 2, wherein the affixing surface of said holding member is concaved.

4. The connector according to any one of Claims 1 to 3, wherein the affixing surface of said holding member is arranged so as to be adhered to said wiring board.

5. The connector according to Claim 4, wherein the affixing surface of said holding member is arranged so as to be attachable to and removable from said wiring board.

6. The connector according to any one of Claims 1 to 3, wherein the affixing surface of said holding member is arranged so as to be engageable with said wiring board.

5 7. A wiring board structure having a wiring board and a connector to be connected to the wiring board,

wherein said connector comprises:

a non-conductive base member;

a conductive wire provided on a surface of said base member;

10 a conductive pressing member provided on and protruding from the wire; and

a holding member provided on and protruding from a portion in the surface of said base member except where said pressing member is located, the holding member having an affixing surface attachable to said wiring board,

15 wherein said wiring board comprises:

a non-conductive base member and

a conductive wire provided on the surface of said base member,

and

20 wherein when said connector is superposed on said wiring board in an opposing manner, the pressing member of said connector is brought into contact with the wire on said wiring board, and said holding member is attached to said wiring board.

25 8. The wiring board structure according to Claim 7, wherein said holding member has wider shape toward said affixing surface.

9. The wiring board structure according to Claim 7 or 8, wherein when said holding member pulls said wiring board, said pressing member is compressed by said connector and said wiring board.

5 10. The wiring board structure according to Claim 9, wherein when said pressing member presses on said wiring board, said holding member is pulled by said connector and said wiring board and stretched.

10 11. The wiring board structure according to Claim 10, wherein said connector is deformed when said pressing member presses on said wiring board and said holding member pulls said wiring board.

15 12. The wiring board structure according to Claim 10, wherein said wiring board is deformed when said pressing member presses on said wiring board, and said holding member pulls said wiring board.

13. A method for manufacturing a connector which is connectable to a wiring board and has a non-conductive base member and a conductive wire provided on a surface of the base member, comprising the steps of:

20 forming the base member with an elastomer,
 forming the wire on the base member with a conductive material in a predetermined pattern,
 forming a mask layer on the wire,
 disposing a mask die having openings in predetermined places on the
25 mask layer,
 irradiating a light for removing the mask layer from above the mask die,
 removing said mask die by etching to form a conductive pressing

member protruding toward said wire,

forming a sticky layer over the entire surface of said base member,

disposing a mask die for covering a portion of the sticky layer except where the pressing member is located,

- 5 irradiating a light for removing the mask layer from above the mask die to remove said mask die by etching so as to form a holding member having an affixing surface attachable to the wiring board protruding from a portion in the surface of the base member except where the pressing member is located.